



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/008,948	12/06/2001	Franklin Zhigang Zhang		4817

7590

06/08/2006

Franklin Zhigang Zhang
4717 Spencer Street
Torrance, CA 90503

EXAMINER

SHARMA, SUJATHA R

ART UNIT	PAPER NUMBER
----------	--------------

2618

DATE MAILED: 06/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/008,948	ZHANG, FRANKLIN ZHIGANG	
	Examiner	Art Unit	
	Sujatha Sharma	2684	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 April 2006.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 6-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 6-10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 6,8-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 6 discloses a multi-channel redundant wireless link device. However, in line 27 of the claim, the claim recites "communication between the RWNL and remote RWNL device" which lacks antecedent basis.

Further claims 8-10 depend on claim 6 and in line 3 recite "two multi-channel RWNL devices of claim 6" which lack antecedent basis.

Therefore claim 6 and its dependent claims 8-10 are rejected.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 6,7 is rejected under 35 U.S.C. 102(b) as being anticipated by Gollnick [US 5,844,893].

Art Unit: 2684

Regarding claim 6, Gollnick discloses a method for coupling host computer means with base transceiver units on a local area network. Gollnick further discloses a network controller/redundant wireless networking unit (RWNL) (40A, 40B in figs. 9-12) comprising:

- A processor (see fig. 4 and col. 6, lines 4-13)
- a system function means; (see fig. 4 and col. 6, lines 4-13 and 36-41)
- a plurality of wireless networking units; see figs 9-12 ,col. 7, lines 39-46
- a plurality of wired networking units; see figs 9-12, col. 7, lines 39-46
- at least one system bus; see figs. 4,7,13 and col. 7, lines 39-46
- whereby the said units are interconnected with each other via the said system bus, and whereby all the units are inside on enclosure with necessary connectors for connecting to the outside of the said enclosure. See col. 10, lines 9-18
- wherein the system function means is the digital possessing function running primary in the processor unit and among all the other units. See fig. 4 and col. 6, lines 4-13 and 36-41
- Wherein said wireless networking unit can communicate with remote wireless networking device forming a wireless networking sub-link via antenna means; see figs. 9-12 and col. 8, lines 22-24
- Wherein said system function means is running to control networking communication packets to be redistributed among all the wireless networking units for aggregating the networking bandwidth and providing redundancy among the wireless units; see figs. 9-13 and col. 8, line 64 – col. 11, line 8

Art Unit: 2684

- Wherein the said system function means is communicating between the said wireless and wired networking units in the same said RWNL device; See figs. 7-13, col. 4, lines 36-67, col. 7, lines

Regarding claim 7, Gollnick further discloses a method wherein said RWNL device include a control unit for extending the system control to wireless networking units whereby said control unit connect to system bus whereby said control unit connects to said wireless networking units whereby said processor unit can extend the controlling capability via the control unit. See figs. 7-13, col. 4, lines 36-67, col. 7, lines

Response to Arguments

5. Applicant's arguments with respect to claims 6-10 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Banerjee [US 6,760,017] Wireless interface device for communicating with a remote host computer

Ganz [US 6,584,080] Wireless burstable communication repeater

Tubbs [US 6,567,855] Portable processing system with always on, always connected capability


Art Unit: 2684

Alexander [US 6,272,120] Multi-radio bridge

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sujatha Sharma whose telephone number is 571-272-7886. The examiner can normally be reached on Mon-Fri 7.30am - 4.00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew D. Anderson can be reached on 571-272-4177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


Sujatha Sharma
June 5, 2006


Matthew D. Anderson
Supervisory Patent Examiner